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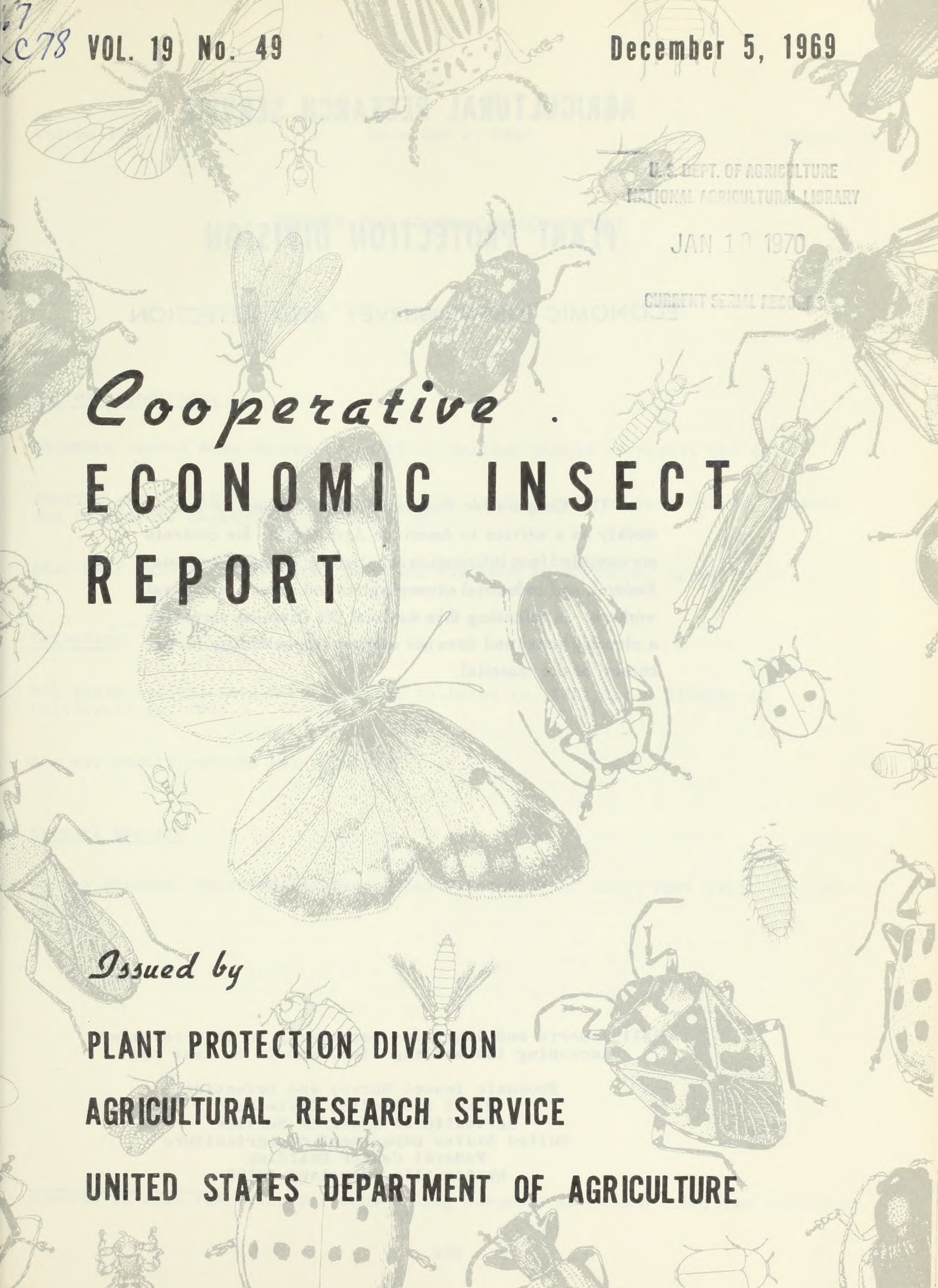

Cooperative
ECONOMIC INSECT REPORT

Issued by

PLANT PROTECTION DIVISION
AGRICULTURAL RESEARCH SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE

AGRICULTURAL RESEARCH SERVICE

PLANT PROTECTION DIVISION

ECONOMIC INSECT SURVEY AND DETECTION

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Division serves as a clearing house and does not assume responsibility for accuracy of the material.

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Volume 19 December 5, 1969 Number 49

COOPERATIVE ECONOMIC INSECT REPORT

HIGHLIGHTS

Current Conditions

GREENBUG caused some damage to wheat in Rolling Plains of Texas. (p. 861).

SPOTTED ALFALFA APHID heavy on alfalfa in limited area of Yuma County, Arizona, and in Alachua County, Florida. (p. 861).

BEAN LEAF BEETLE damaged late maturing soybeans in Oklahoma. (p. 861).

Detection

New State records include a BIRD BUG in Idaho (p. 862) and a PIESMID in California (p. 863).

For new county records see page 863.

Special Reports

Survey Methods. Selected References for First Half of 1969. Part XXII. (pp. 865-870).

Reports in this issue are for week ending November 28 unless otherwise indicated.

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WEATHER OF THE WEEK ENDING DECEMBER 2

HIGHLIGHTS: Extensive sunny skies prevailed over most of the Nation last week. Mild weather predominated over the northern Great Plains. Mild days and cool nights were the rule over the East and Deep South.

PRECIPITATION: Wide areas from the Pacific Ocean to the Ohio River Valley received no rain or only widely scattered light sprinkles last week. A Pacific storm brought light rain to the Washington coast early in the week. Also early in the week a low off the New England coast brought a blanket of snow to the northern portions of Vermont, New Hampshire, and Maine. Light rain and drizzle fell on several days along the gulf coast from southern Texas to Florida with totals generally less than 0.20 inch except in southern Texas where generous showers dumped 2 to 4 inches at some locations. Two to 6 inches of snow fell in the Trans-Pecos on Thursday. Light snow flurries fell from Minnesota to Michigan shortly after midweek and several inches of snow fell over the weekend in western New York along the lee shores of Lake Erie.

TEMPERATURE: Extensive high pressure areas produced mostly clear sunny weather over much of the Nation. Maximum temperatures ranged from the 30's and 40's over the Northern States to the 70's and 80's across the South early in the week but dropped about 10° by Thursday afternoon. Subfreezing temperatures occurred every day as far south as the central Great Plains and by Thursday morning the freezing line had plunged into the northern portions of Alabama and Georgia. Subzero temperatures occurred on 1 or 2 nights in western Wyoming and spots in northern Minnesota and northern New England. Temperatures averaged above normal in the West and North Central and below normal in the East and South Central. Much of the northern Great Plains averaged 6° to 12° above normal. It was the 7th consecutive cold week in Pennsylvania. (Summary supplied by Environmental Data Service, ESSA.)

SPECIAL INSECTS OF REGIONAL SIGNIFICANCE

GREENBUG (*Schizaphis graminum*) - NEW MEXICO - Ranged up to 1 per linear foot in 32 small grain fields in Lea, Roosevelt, Curry, De Baca, and Quay Counties. (Mathews, Nielsen). TEXAS - Light throughout most areas of State. Present in several Rolling Plains counties; caused some damage to wheat near Vernon in Wilbarger County. Severe, ranged up to 20 per leaf in one wheatfield in Fayette County. (Boring, Crow). OKLAHOMA - Averaged 25 per linear foot in wheat in Beckham County. (Okla. Coop. Sur.). ARKANSAS - Survey negative in northwest areas. (Boyer).

SPOTTED ALFALFA APHID (*Therioaphis maculata*) - ARIZONA - Averages per 100 sweeps of alfalfa in Yuma County as follows: 150 on Yuma Mesa (one field, 1,000 per 100 sweeps); 50 in Gila Valley; and 8 in Yuma Valley. (Ariz. Coop. Sur.). FLORIDA - Nymphs and adults ranged 850-900 in 100 sweeps of alfalfa at Gainesville Alachua County. (Mead).

SMALL GRAINS

SOUTHERN CORN ROOTWORM (*Diabrotica undecimpunctata howardi*) - MISSISSIPPI - Adults averaged 10 per 200 sweeps in winter wheat at State College, Oktibbeha County. (Sartor).

TURF, PASTURES, RANGELAND

AN ANT (*Pogonomyrmex salinus*) - UTAH - Collected at Desert range experiment station, Beaver County. Determined by A.C. Cole. This is a new county record. (Knowlton, Nov. 26).

RHODES-GRASS SCALE (*Antonina graminis*) - CALIFORNIA - Nymphs medium on Johnson grass stems and roots in railroad yards in Glendale, Los Angeles County. (Cal. Coop. Rpt.).

FORAGE LEGUMES

EGYPTIAN ALFALFA WEEVIL (*Hypera brunneipennis*) - ARIZONA - Adults averaged 25 per 100 sweeps of alfalfa on Yuma Mesa, Yuma County. (Ariz. Coop. Sur.).

TARNISHED PLANT BUG (*Lygus lineolaris*) - FLORIDA - Adults averaged 11 in 100 sweeps of alfalfa at Gainesville, Alachua County. (Mead).

A PLANT BUG (*Taylorilygus pallidulus*) - FLORIDA - Adults averaged 61 in 100 sweeps of alfalfa at Gainesville, Alachua County. (Mead).

THREE-CORNERED ALFALFA HOPPER (*Spissistilus festinus*) - FLORIDA - Adults averaged 11 in 100 sweeps of alfalfa at Gainesville, Alachua County. (Mead).

SOYBEANS

BEAN LEAF BEETLE (*Cerotoma trifurcata*) - OKLAHOMA - Averaged 25 per row foot in soybeans in McCurtain County. Considerable damage to late maturing beans. (Okla. Coop. Sur.).

POTATOES, TOMATOES, PEPPERS

THREE-LINED POTATO BEETLE (*Lema trilineata*) - CALIFORNIA - Pupae and adults heavy on tomatillo plants in Hanford, Kings County. (Cal. Coop. Rpt.).

GENERAL VEGETABLES

CABBAGE LOOPER (Trichoplusia ni) - ARIZONA - Full-grown larvae main problem in major lettuce-growing areas statewide. Controls difficult on larger lettuce heads. (Ariz. Coop. Sur.).

CITRUS

CITRUS MEALYBUG (Planococcus citri) - CALIFORNIA - Heavy on lime trees at Vista, San Diego County. (Cal. Coop. Rpt.).

YELLOW SCALE (Aonidiella citrina) - CALIFORNIA - Medium on 20 acres of citrus in Lindsay, Tulare County. (Cal. Coop. Rpt.).

FOREST AND SHADE TREES

WHITE-PINE WEEVIL (Pissodes strobi) - VIRGINIA - Damage heavier than usual to eastern white pine in Patrick and Henry Counties. (For. Pest Sur. Rpt., Oct.).

SMALLER EUROPEAN ELM BARK BEETLE (Scolytus multistriatus) - CALIFORNIA - Adults heavy in elm trees on Norton Air Force Base, San Bernardino, San Bernardino County. (Cal. Coop. Rpt.).

FALL CANKERWORM (Alsophila pometaria) - VIRGINIA - Prism-plot estimate (25 plots) on eastern side of Bull Run Mountain, subjected to 2 successive years of severe defoliation, showed 50 percent of black oaks dead. Black oak constituted 25 percent of stand. (For. Pest Sur. Rpt., Oct.).

MAN AND ANIMALS

SCREW-WORM (Cochliomyia hominivorax) - One case reported in U.S. November 23-29 as follows: TEXAS. Total of 93 laboratory-confirmed cases reported in portion of Barrier Zone in Republic of Mexico November 16-22 as follows: Sonora 34, Chihuahua 50, Nuevo Leon 2, Tamaulipas 7. Total of 8 cases reported in Mexico south of Barrier Zone. Barrier Zone is area where eradication operation underway to prevent establishment of self-sustaining population in U.S. Sterile screw-worm flies released: Texas 9,728,000; Arizona 2,040,000; Mexico 65,678,000. (Anim. Health Div.).

COMMON CATTLE GRUB (Hypoderma lineatum) - OKLAHOMA - Ranged 0-22 per head (average about 3) on cattle in Payne County. Light in Cleveland County. (Okla. Coop. Sur.).

STABLE FLY (Stomoxys calcitrans) - OKLAHOMA - Ranged 6-8 per head on cattle in Payne County on warm days. (Okla. Coop. Sur.).

A BIRD BUG (Haematosiphon inodorus) - IDAHO - Adults and nymphs collected from nest of golden eagle in Owyhee County May 29, 1967, by G.L. Hickman. Determined by J.L. Herring. This is a new State record. (Hickman). This bloodsucking bird bug occurs from southern California to Texas and is recorded from Oklahoma and Missouri. Specimens have also been collected in Mexico. (PPD).

HOG LOUSE (Haematopinus suis) - MISSISSIPPI - Averaged 3 behind each ear on hogs at State College, Oktibbeha County. (Sartor).

BROWN RECLUSE SPIDER (Loxosceles reclusa) - TENNESSEE - One specimen collected in office building on October 30 in Bradley County. This is a new county record. (Hale).

MISCELLANEOUS WILD PLANTS

A PIESMID (Piesma ceramicum) - CALIFORNIA - Specimens collected on Atriplex sp. at Deep Springs, Inyo County, by T. Kono and M. Wasbauer September 14, 1969. Determined by G. Buxton, verified by R.C. Froeschner. This is a new State record. (Cal. Coop. Sur.). Also occurs in Utah, Colorado, and Arizona. (PPD).

BENEFICIAL INSECTS

A DAMSEL BUG (Nabis sp.) - FLORIDA - Adults averaged 6 in 100 sweeps of alfalfa at Gainesville, Alachua County. (Mead).

A GREEN LACEWING (Chrysopa sp.) - FLORIDA - Adults averaged 5 in 100 sweeps of alfalfa at Gainesville, Alachua County. (Mead).

FEDERAL AND STATE PLANT PROTECTION PROGRAMS

ORIENTAL FRUIT FLY (Dacus dorsalis) - CALIFORNIA - No specimens recovered since October 1 in Los Angeles County. (Cal. Coop. Rpt.).

PINK BOLLWORM (Pectinophora gossypiella) - NEW MEXICO - Economic infestations confined mostly to Eddy and Dona Ana Counties. Frozen green bolls ranged 48-100 percent infested in study fields in Eddy County. (N.M. Coop. Rpt.). TENNESSEE - Lint cleaner inspections in Dyar, Lauderdale, and Shelby Counties negative. (Gordon).

SWEETPOTATO WEEVIL (Cylas formicarius elegantulus) - NEW MEXICO - Surveys of storage areas and cull sweetpotatoes negative. (Mathews, Nielsen).

DETECTION

New State Records - A BIRD BUG (Haematosiphon inodorus) IDAHO - Owyhee County. (p. 862). A PIESMID (Piesma ceramicum) CALIFORNIA - Inyo County (p. 863).

New County Records - AN ANT (Pogonomyrmex salinus) UTAH - Beaver (p. 861). BROWN RECLUSE SPIDER (Loxosceles reclusa) TENNESSEE - Bradley (p. 862).

LIGHT TRAP COLLECTIONS

FLORIDA - Gainesville, 11/21-25, BL - Black cutworm (Agrotis ipsilon) 2, granulate cutworm (Feltia subterranea) 3, yellow-striped armyworm (Prodenia ornithogalli) 1. MISSISSIPPI - Stoneville, 11/22-28, BL, 35-74°F., precip. 0.27 - Armyworm (Pseudaletia unipuncta) 37, beet armyworm (Spodoptera exigua) 79, black cutworm 27, corn earworm (Heliothis zea) 1, granulate cutworm 10.

CORRECTIONS

CEIR 19(45):827 - SOFT BROWN SCALE should read BROWN SOFT SCALE.

HAWAII INSECT REPORT

Corn - CORN PLANTHOPPER (Peregrinus maidis) nymphs and adults light to medium in whorls of sweet corn 1-3 feet high in Halawa, light at Pupukea and Waianae, Oahu. Negligible in all fields over 3 feet tall. (Funasaki).

General Vegetables - All instars of GREEN PEACH APHID (Myzus persicae) light, 3-12 per terminal leaf, in bell peppers at Kahului, Maui. All instars moderate, 15-25 per square inch, in eggplants at Punaluu, Oahu; light, 0-3 per square inch, at Waimanalo, Pearl City, Koko Head, and Waianae. (Miyahira, Funasaki). Defoliation by DIAMONDBACK MOTH (Plutella xylostella) larvae heavy on 1.5 acres of radish at Pearl City, Oahu. (Higa, Funasaki). Larval mines and adults of LEAF MINER FLIES (Liriomyza spp.) heavy on older leaves of zucchini squash; adults heavy (3-10 per leaf) in snap beans; mines and adults light in bell peppers at Kahului, Maui. Larval mines and adults generally light on cucumber, snap beans, pumpkin, squash, cantaloup, and green onions in all farming areas on Oahu. Remain medium to heavy on yardlongbeans in Waimanalo, Pearl City, and Waianae. (Miyahira et al.). Adults of a PLATASPID BUG (Coptosoma xanthogramma) light, eggs and nymphs trace, on lima, yardlongbeans, and other beans in home gardens and on sesban trees at Ewa, Oahu. All instars of CABBAGE APHID (Brevicoryne brassicae) severe, 1,000-2,000 per flower head, in one acre of old broccoli plants at Nanakuli, Oahu; trace in adjacent 0.5 acre of young broccoli. (Funasaki, Higa).

Fruits and Nuts - All instars of an APHID (Pentalonia nigronervosa) heavy to severe (50 to 75 per square inch) in leaf axils and on stems of fruit bunches in 5 acres of banana at Waikane, Oahu. All instars heavy in leaf axils of banana plantings used as windbreak in Hakipuu, Oahu. (Sato). Light colonies of COCONUT SCALE (Aspidiotus destructor) infested banana foliage in Waimanalo, Oahu. First report on banana in Waimanalo. Light to heavy on coconut trees throughout coastal areas; light colonies on papaya foliage in Waiahole; medium to heavy on banana foliage at Pearl City and Waiahole. (Suzukawa, Nakao).

Shade Trees - All instars of BARNACLE SCALE (Ceroplastes cirripediformis) severe, covered portions of stems and leaves, on about 30 fiddlewood trees at Wailuku, Maui. Caused 1 to 2-foot dieback of few branches. Parasites absent. Controls recommended. (Miyahira).

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